"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Janos

I.Cooperative phenomena. Fiz szemle 10 no.9:282-288 S '61.

1. Szegedi Tudomanyegyetem Elmeleti Fizikai Intezete, es "Fizikai Szemle" szerkeszto bizottsagi tagja.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J.

New data on the occurrence of potato viruses with special regard to complex infections. Acta agronom Hung 12 no.1/2:67-81 '63.

1. Laboratorium des Forschungsinstituts fur Pflanzenschutz, Keszthely.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J. 1947

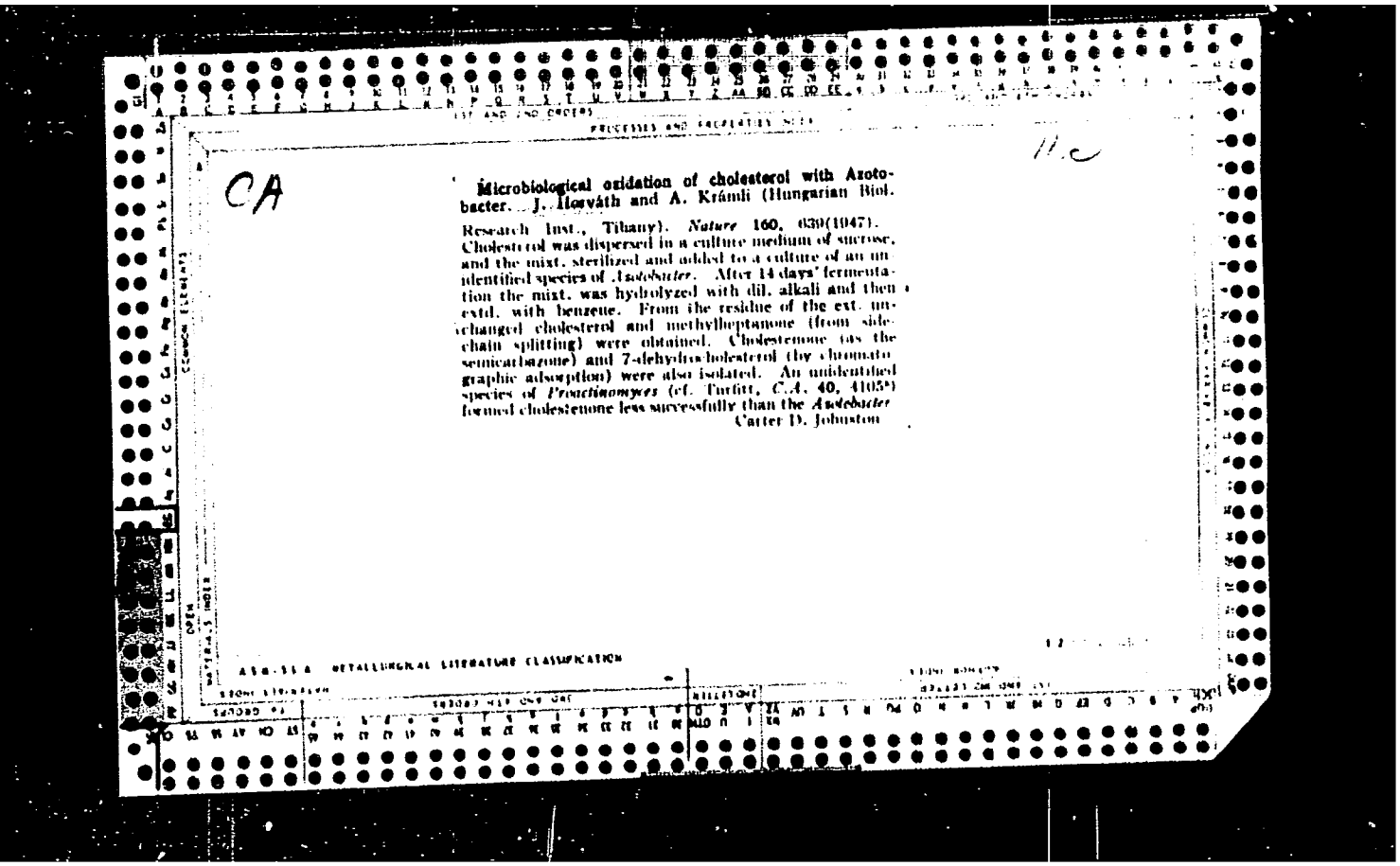
(Hungarian Biological Rsch. Inst. Tihany)

"The Question of the Equality of Somatic and Germ Nuclei in Respect to Heredity and Survival on the Basis of Study in a Soil Protozoon."

Acta Biologica Hungarica, 1947, 17(193-201)
Abst: in Exc. Med. 1, Vol. 111, No. 3, p. 92

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

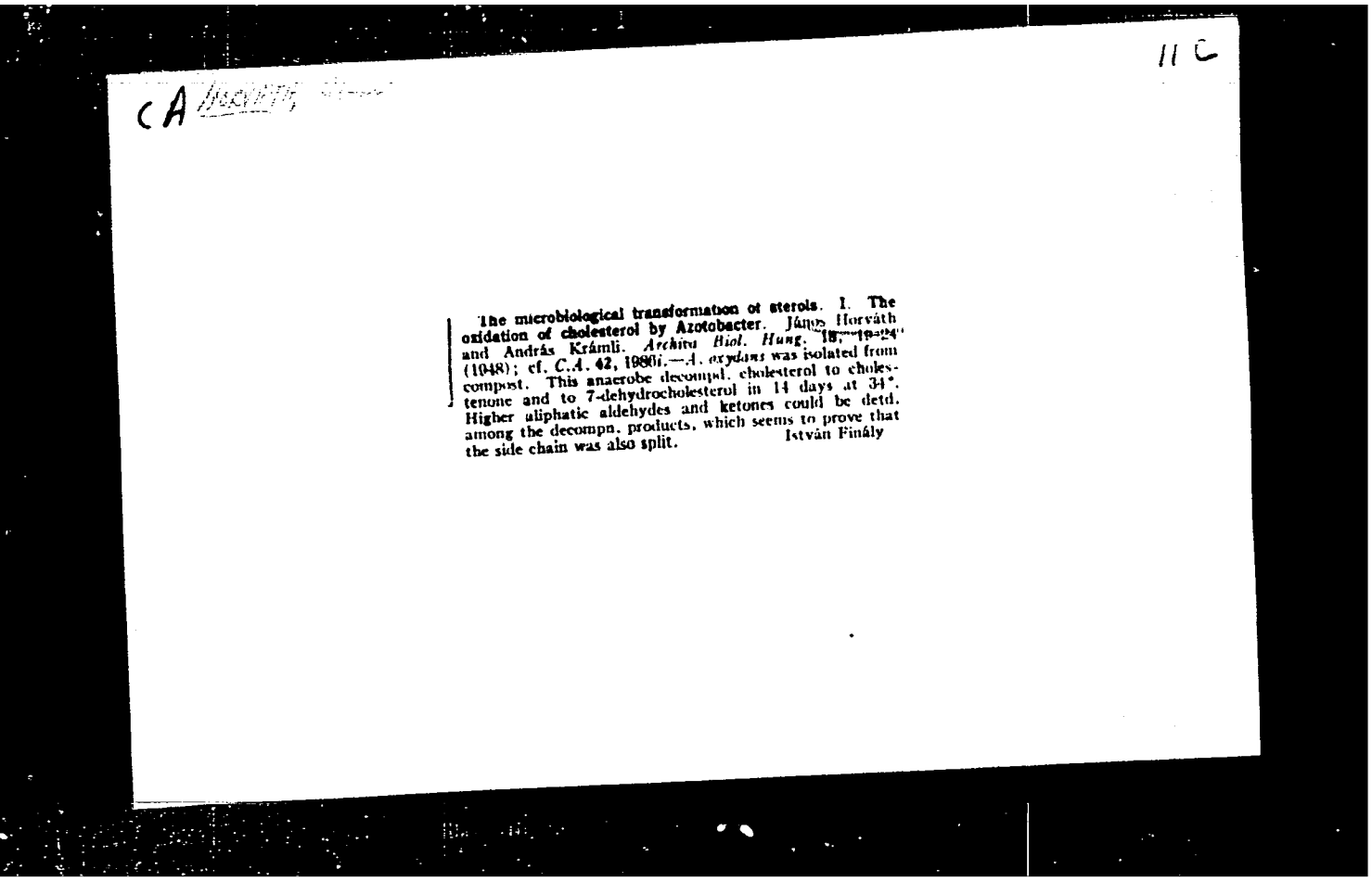


CA

Microbiological oxidation of cholesterol with Azotobacter. J. Horváth and A. Krámli (Hungarian Biol. Research Inst., Tihany). *Nature* **160**, 639(1947). Cholesterol was dispersed in a culture medium of sucrose, and the mixt. sterilized and added to a culture of an unidentified species of *Azotobacter*. After 14 days' fermentation the mixt. was hydrolyzed with dil. alkali and then extd. with benzene. From the residue of the ext. unchanged cholesterol and methylheptanone (from side-chain splitting) were obtained. Cholestenone (as the semicarbazone) and 7-dehydrocholesterol (by chromatographic adsorption) were also isolated. An unidentified species of *Proactinomyces* (cf. Turfitt, *C.A.* **40**, 4105⁸) formed cholestenone less successfully than the *Azotobacter*.
Carter D. Johnston

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2



CA

11 C

The microbiological transformation of sterols. I. The oxidation of cholesterol by Azotobacter. János Horváth and András Krámli. *Archiv. Biol. Hung.* 18, 19–24 (1948); cf. *C.A.* **42**, 1980i.—*A. oxydans* was isolated from compost. This anaerobe decompd. cholesterol to cholestenone and to 7-dehydrocholesterol in 14 days at 34°. Higher aliphatic aldehydes and ketones could be detd. among the decompn. products, which seems to prove that the side chain was also split. István Finály

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J. 1948

(Hung Biol. Res. Inst., Tihany)

"Microbicligical Oxidation of Sterols"

Nature, 1948, 162/4120 (619)
No abst. in Exc. Med.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

C 4

117

Histamine treatment and Streptococcus pneumoniae morbidity in the guinea pig. A. B. L. Besnak, J. Horvath, and A. G. B. Kovach (Hungarian Biol. Research Inst., Tihany, Lake Balaton). *Arch. intern. pharmacodynamie* 81, 147-58(1950).—Guinea pigs treated for several weeks with small doses of histamine showed lung changes, including increased mucus secretion. These animals and a control group were injected with *Streptococcus pneumoniae*. Neither group developed pneumonia. Both groups became septicemic, with identical symptoms, but the histamine group resisted a larger dose of bacteria than the control group. M. L. C. Bernheim

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J. et al.

13 W (4)

Chemical Abst.
Vol. 48 No. 4
Feb. 25, 1954
Soils and Fertilizers

Relation between antibiotic properties of species of Streptomyces and their soils. J. Horváth, J. Soós-noki, and L. Felföldy (Biol. Inst. Hung. Acad. Sci., Tihany, Hungary). *Acta Biol. Acad. Sci. Hung.* 4, 453-70(1953)(in English).—Expts. were performed to det. the possibility of correlating the chem. and phys. properties (or the flora) of soils with the antagonism of *Streptomyces* (I) to *Micrococcus pyogenes* var. *aureus*, *Bacillus subtilis*, and *Escherichia coli* found in each. No such correlation was found. A dextrose-casein (pH 6.5) culture medium was used for the antibiotic tests. A table lists pH (4.5-7.3 range), salt concn. (conductometric method), carbonate content, org. C (from which humus content is calcd.), N (Kjeldahl method), Ca, Na, K, and P content for soils of 10 habitats. Too much elution, by ground water or pptn., appears to produce soils whose I are not antibiotic. In soils rated as less than 25-30 years of age no antibiotic strains of any kind could be found.

T. Lloyd Fletcher

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J.

"The reactionary gene theory in microbiology." p. 465. (Termeszet es Technika, Vol. 112, no. 8, Aug 53, Budapest)

SO: Monthly List of East European Accessions, Vol 3 No 2 Library of Congress Feb 54 Uncl

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J.

Contribution to the biology of quantitative changes in antibiotic production based upon investigation of a Streptomyces species. Acta microb. hung. 1 no.1-3:131-140 1954.

1. Biological Research Institute of the Hungarian Academy of Sciences, Department of Microbiology, Tihany; received July 31,1954.

(STREPTOMYCES
antibiotic prod., eff. of refrigeration & ultraviolet irradiation)
(ULTRAVIOLET RAYS, eff.
on antibiotic prod. by Streptomyces species)
(REFRIGERATION, eff.
on antibiotic prod. by Streptomyces species)

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J.; MARTON, M.; OROSZLAN, I.

Vegetative studies of hybridization in Streptomyces. Acta microb. hung. 2 no.1-2:21-37 1954.

1. Biologisches Forschungsinstitut der Ungarischen Akademie der Wissenschaften Tihany, und Mikrobiologischer Lehrstuhl der Agrarwissenschaftlichen Universitat, Godollo. CHAIR of MICROBIOLOGY

(STREPTOMYCES
hybridization)
(HYBRIDITY
hybridization of Streptomyces)

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

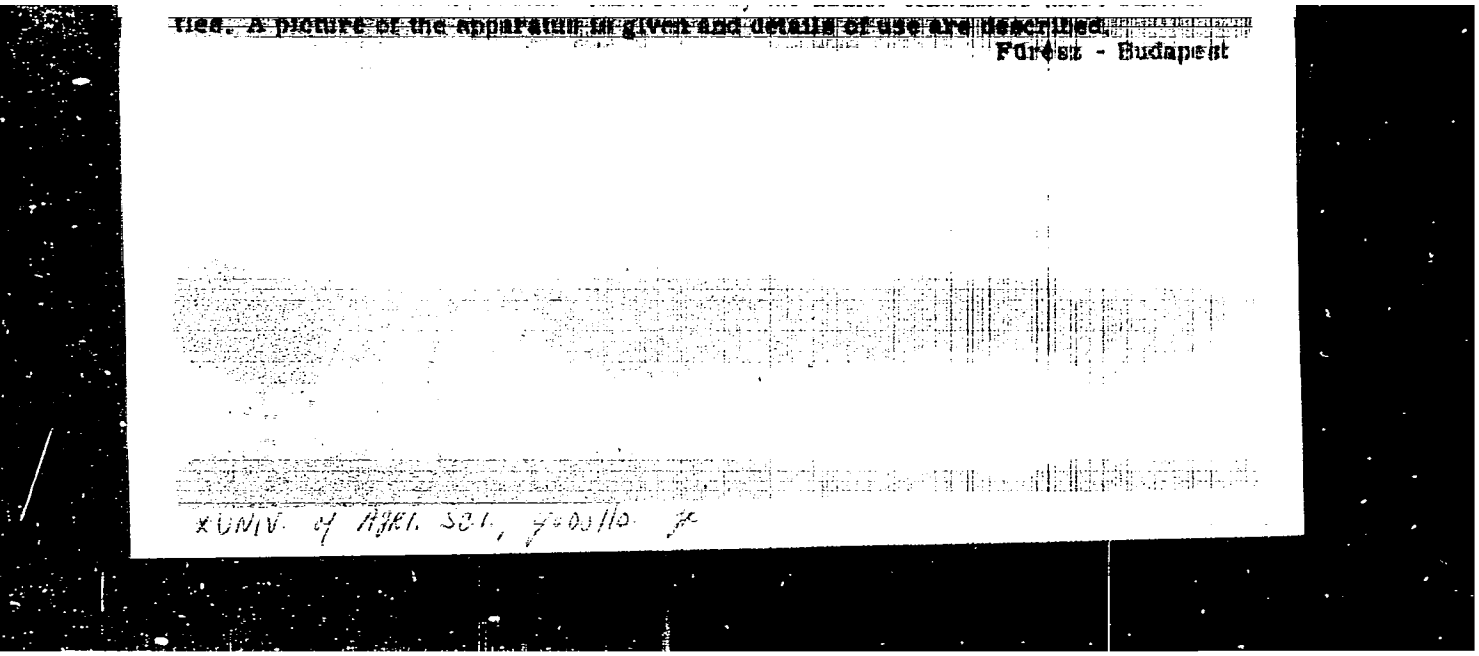
"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

1914 HORVÁTH J. Lehrstuhl für Mikrobiol., Agrarwissenschaftl. Univ., Gödöllő. "Apparat zur Verbesserung der Agarscheibenteströmethode. A new apparatus for the simplification of the agar disc method. ACTA MICROBIOL. ACAD. SCIENT. HUNG. (Budapest) 1954, 3/1-2 (219-223) Illus. 2

The agar disc method recommended by Raper for the detection of antibiotic production and the determination of antibacterial effects has the disadvantage that cutting discs out of the agar plate and transferring them to the other plates is somewhat difficult. The small apparatus constructed by the author eliminates these difficulties. A picture of the apparatus is given and details of use are described.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2



tied. A picture of the apparatus is given and details of use are described.

Forest - Budapest

xUNIV. of AGRI. SCI., Godollo

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J.

HORVATH, J. Apparatus for improvement of the agar disc method. In German. p. 219.
Obituary for Daniel Feher. In German. p. 225.

Vol. 3, No. 1/2, 1955
ACTA MICROBIOLOGICA
SCIENCE
Budapest, Hungary

So: East European Accession, Vol. 5, No. 5, May 1956

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J.

New contributions to permanent heterokaryosis of streptomyces. Acta microb. hung. 6 no.3:209-215 1959.

1. University of Agricultural Science, Microbiological Department, Godollo. Acta microb. hung. 6 no.3:209-215 1959.
(STREPTOMYCES)

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J.; BUDAY, F.

On the effect of Streptomyces aureofaciens cultures on antibiotic-producing capacity of various Streptomyces species. Acta microb. hung. 6 no.3:227-232 1959.

1. ~~Institut~~ Dept. fur Mikrobiologie der Agrarwissenschaftlichen Universität, Godollo.

(STREPTOMYCES)

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Janos, Dr., tanszekvezeto (Godollo, Agrartudomanyi Egyetem)

Investigation of heterokaryozis and its relation with recombination in streptomyces. Biol kozl 9 no.1:25-39 '61.

1. Agrartudomanyi Egyetem, Mikrobiologiai Tanszek, Godollo.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J.

Recombination in streptomyces of heterokaryotic origin. Acta microbiol. Hung. 9 no.2:189-195 '62.

1. Institute of Microbiology (Director: J. Horvath) University of Agricultural Sciences, Godollo.
(STREPTOMYCES)

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

TOROK, Gabor; CSABA, Gyorgy; HORVATH, Janos

Effect of heparin on the frequency of mutations induced on Streptomyces. Biol kozl 10 no.1:51-57 '62.

1. Agrartudomanyi Egyetem Mikrobiologiai Tanszek, Godollo. Tanszekvezeto: Dr.Janos Horvath egyetemi tanar, es Budapesti Orvostudomanyi Egyetem Szovettani es Fejlodestani Intezet. Igazgato: R. Imire Toro egyetemi tanar, akademikus. 2. Biologiai Kozlemenyek" szerkeszto bizottsagi tagja (for Horvath).

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

L 47277-66

ACC NR: AP6034677 SOURCE CODE: HU/0014/65/098/009/0385/0391

HORVATH, Janos, Diplomate Metallurgical Engineer, of the Directorate for Ferrous Metallurgy (Vaskohaszati Igazgatosag) and SZUCS, Ambrus, Technician, of the Metallurgical Works (Kohaszati Uzemek) in Ozd.

"Evaluation of Various Binders Added to Sintering Mixes of Ores"

Budapest, Kohaszati Lapok, Vol 98, No 9, Sep 1965, pp 385-391.

Abstract: Vinyl polymer, polyacryloamide, bentonite, red sludge from alumina manufacture, sludge from furnace-gas washing, manganese sludge from the enriching of manganese-bearing ores, carbide-lime, and lime were investigated as to their ability to improve the pellets in sintering mixtures and as to the optimum ratio of admixture. The details of the experimental studies, presented in detail, indicated that the sludges and limes performed best under a variety of conditions; however, some of the others also performed well under specific conditions of use. Orig. art. has: 7 figures, 2 formulas and 4 tables. [JPRS]

TOPIC TAGS: metallurgic research, vinyl plastic

SUB CODE: 11 / SUBM DATE: none / OTH REF: 001

UDC: 622.78:666.9

Card 1/1

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

L 46893-66 EWP(e)/EWP(v)/EWT(j)/T WW/RM/WH

ACC NR: AP6034300 SOURCE CODE: HU/0014/66/000/005/0204/0211

HORVATH, Janos, Diplomate Metallurgical Engineer, of the Directorate for Ferrous Metallurgy (Vaskohaszati Igazgatosag), and SZUCS, Ambrus, of Ozd Metallurgical Works (Ozdi Kohaszati Uzemek) in Ozd.

"Effect of Binders on the Process and Economy of Ore Sintering"

Budapest, Kohaszati Lapok, Vol 99, No 5, May 1966, pp 204-211.

Abstract: The purpose of this article is to provide additional data on the effects of various binders on the formation of raw pellets and on the binding performance of these binders in such pellets. The initial data were presented Ibid., 1965, No 9 [volume number and page numbers not given]. This paper discusses the effects of the binders on the sintering process, productivity, strength of pellets, and manufacturing economy. The relevant data for vinyl polymer, polyacryloamide, bentonite, red sludge, furnace gas washing sludge, furnace gas washing sludge plus calcined lime, manganese sludge, carbide lime, hydrated lime, and calcined lime binders were presented and discussed. Each binder was assessed at to its overall performance in terms of the factors investigated.

Orig. art. has: 7 figures and 2 tables. [JPRS 36,867]

TOPIC TAGS: vinyl plastic, sintering
SUB CODE: 11 / SUBM DATE: none

Card 1/1 fv

0920 0081 UDC: 669.162.1:662.781:669.162.27

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Janos

Problem of the entropy growth. Magy fiz folyoir 13 no.1:19-46 '65.

1. Institute of Theoretical Physics of Attila Jozsef University, Szeged.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Janos

Remarks about the theory of the absorption and emission spectra of fluorescent molecules. Magy fiz folyoir 13 no.2:195-206 '65.

1. Institute of Theoretical Physics of Attila Jozsef University, Szeged. Submitted September 6, 1964.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Janos

Dispersion relations in classical physics. Fiz szemle 15 no.1:7-16 Ja '65.

1. Institute of Theoretical Physics of Attila Jozsef University, Szeged, and Editorial Board Member, "Fizikai Szemle."

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Janos, dr.

Genetic effects of the heterokaryosis of Streptomyces. Elovilag 6 no.5:7-12 S-O '61.

*

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Janos, dr., egyetemi tanar

Newer aspects of the variability of fungi pathogenic for plants.
Elovilag 8 no.2:30-37 Mr-Ap '63.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Janos, okleveles gepeszmernok, kazanbiztos

Most recent experimental results in the natural water circulation of high-ressure boilers. Energia es atom 17 no. 2: 81-84 F '64.

1. Hotechnikai Kutato Intezet.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Janos, okleveles gepeszmernok, kazanbiztos

Combined computation of radiator grille systems in furnaces with natural water circulation. Energia es atom 18 no.2/3: 102-103 F-Mr '65.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Jeno, bolsoepitesz

An exhibition of apartment living, Berlin, 1962. Faipar 13 no.1:9-12 Ja '63.

1. Faipari Gyartastervezo Iroda.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

KERTAY, Nandor, dr.; VEN, Ferenc, dr.; HORVATH, Jozsef, dr.

Isolation of Mycobacterium tuberculosis bovin in human tuberculosis in the Kiskoros Region. Nepegeszsegugy 42 no.2:41-43 F '61.

1. Kozlemeny az Orszagos Koranyi Tbc. Intezet (igazgato-foorvos: Boszormenyi Miklos dr. kandidatus, tudomanyos vezeto: Foldes Istvan dr. kandidatus) mikrobiologiai osztalyarol (vezeto: Kertay Nandor dr. kandidatus), a kiskorosi jarasi tbc. gondozo intezetbol (vezeto: Ven Ferenc dr. foorvos) es a jarasi allarovosi invatalbol (vezeto: Horvath Jozsef dr. foallatorvos).
(MYCOBACTERIUM BOVIS)

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

PETRANYI, G.; HORVATH, J.

The significance of bronchoscopy in the differential diagnosis of bronchoadenitis tuberculosis complications. Gyermekgyogyaszat 4 no.5: 137-148 May 1953. (CIML 25:1)

1. Doctors. 2. Children's Tubercular Home and Therapeutic School (Head Head-Physician -- Prof. Dr. Gyozo Petranyi) of Fourth District Metropolitan General Hospital (Director - Head Physician -- Dr. Rudolf Devenyi).

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Ferenc; HORVATH, Jozsef

Clinically cured case of slightly differentiated spindle cell bone sarcoma. Magy. radiol. 9 no.4:224-228 Dec 57.

1. Budapesti Orvostudomanyi Egyetem Rontgenklinikajanak Kozlemenye Igazgato: Ratkoczy Nandor egyetemi tanar.

(SPINE, neoplasms
spindle cell sarcoma, case report (Hun))
(SARCOMA, case reports
spindle cell sarcoma of spine (Hun))

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Ferenc, dr.; HORVATH, Jozsef, dr.; ERDOS, Bela, dr.

The significance of ureteral dislocation in the diagnosis of retroperitoneal lymph node metastases. Orv. hetil. 102 no.20:931-933 14 My '61.

1. Budapesti Orvostudomanyi Egyetem, Rontgenklinika.

(RETROPERITONEAL SPACE neoplasms)
(LYMPH NODES neoplasms)
(URETER pathology)

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HUNGARY

HORVATH, Jozsef, Dr; Hospital of the Megye Council of Hajdu-Bihar, Urological Ward (chief physician: DIOSZEGHY, Gyorgy, Dr) (A Hajdu-Bihar Megyei Tanacs Korhaza, Urologiai Osztaly).

"Urethral Stones of the Male in General, in Connection With a Case of an Unusually Large Stone Located Dorsally."

Budapest, Magyar Sebeszet, Vol XVI, No 5, Oct 63, pages 330-334.

Abstract: Urethral stones are classified and discussed according to their origin and location, by the author. The symptoms and differential diagnosis are described. The clinical history of a 66 year-old male patient with a fist-sized carbonate stone in the urethra and the surgical and postoperative treatments are described. Of 46 references about two-third are Eastern European, the rest are Western.

1/1

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

H/502/62/031/001/002/002
D409/D301

11.9100

AUTHORS: Steingaszner, Pál (Budapest) and Horváth, József (Pétfürdő)

TITLE: On hydrorefining of lubricating-oil fractions

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 31, no. 1-3, 1962, 195-206

TEXT: The High-Pressure Research Institute in Budapest-Pétfürdő has conducted hydrorefining experiments with furfural-extracted lubricating-oil cuts obtained from sulphur-rich Soviet crude. The tests were made in a 200 ml laboratory reactor over a nickel-molybdenum-alumina catalyst at reaction temperatures of 330 - 410°C and pressures of 20 - 80 atm. It was found that the reaction pressure has no influence on the yield and the quality of hydrogenated products, and that the viscosity, viscosity index, and sulphur content of obtained products depends merely on the reaction temperature. This temperature should not exceed 340 - 360°C to avoid undesired viscosity decrease and formation of light distil-

Card 1/2

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

On hydrorefining ...

lates. The lubricating-oil yield at this temperature range amounts to 95%, the ageing stability is satisfactory, and the oil can be classified as SAE-30. Higher hydrorefining temperatures should only be applied for oil grades where considerably higher viscosity indices are desired. (To attain a viscosity index of 80, the reaction temperature must lie above 370°C, however, the obtained oil can only be classified as SAE-20). The tests also showed that the oxidation stability of the oil increases with decreasing sulphur contents, a result which is in contradiction to the oxidation-inhibiting effect of sulphur compounds as postulated by various authors. Credit is given to Professor M. Freund, E. Vámos, and Gy. Mózes of the MÁFKI Hungarian Crude-Oil and Natural-Gas Research Institute. There are 7 figures and 4 tables. The most recent English-language reference is : Butler, Katzmark, 5th World Petroleum Congress, Sect. III, Paper 11, New York, 1959.

ASSOCIATION: High-Pressure Research Institute, Budapest-Pétfürdő

SUBMITTED: September 15, 1961

Card 2/2

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

H/502/62/031/001/001/002
D409/D301

AUTHORS: Bánkövi, Gy., Sarkadi, K., Horváth, J. and Jakob, K.

TITLE: The design and evaluation of diesel-oil desulphurization experiments by mathematical-statistical methods

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 31, no. 1-3, 1962, 23-30

TEXT: The High-Pressure Research Institute in Budapest - Pétfürdő is conducting research on hydrorefining of sulphur-rich diesel-oil cuts obtained from Soviet crude. To facilitate the tedious experiments, the mathematical-statistical method of so-called factorial experiments with partial repetition was used and is described in this article. This widely used method was slightly modified to meet the requirements of experiments aimed at determining the influence of operating conditions on the efficiency of the hydrorefining process. The test results can generally be formulated

$$z = f(u, v, x, y) + \varepsilon_{u, v, x, y}$$

Card 1/3

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

The design and evaluation ...

where f(u,v,x,y) is the systematic influence of operating conditions (pressure, temperature, space velocity, and gas-to-product ratio), and $\varepsilon_{u,v,x,y}$ are random variables with expectation zero. Using this mathematical model and some simplifying assumptions (neglection of higher-order interactions), it was possible to reduce hydrorefining experiments from 81, i.e. all possible combinations of the four factors in three levels, to only 36 at an estimated error (block design) of ± 4 - 5%. The hydrorefining tests proper were performed in a 200 ml laboratory-scale and a 400 l semi-production scale reactor. It was found that the desulphurization efficiency could be increased by raising the reaction temperature (to 360 - 390°C) or pressure, and reducing the space velocity. An optimum desulphurization degree was attained at a gas-to-product ratio of 500 Nm^3/m^3. There are 2 figures and 1 table. The English-language references are: O. Kempthorne: The Design and Analysis of Experiments. (Wiley, New York) 1952; D.J. Finney: An Introduction to the Theory of Experimental Design. (The University of Chicago Press) 1960; K.A. Brownlee: Industrial Experimentation. 1947.

Card 2/3

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

H/502/62/031/001/001/002
D409/D301

The design and evaluation ...

ASSOCIATION: Mathematical Institute of the Hungarian Academy of Sciences, Budapest V. Reáltanoda u. 13-15 (György Bánkövi and Károly Sarkadi): High-Pressure Research Institute, Budapest-Pétfürdő, Lenin ut 91, Hungary (József Horváth and Károly Jakob)

SUBMITTED: September 15, 1961

Card 3/3

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

KISS, Gyula, fomernok; HORVATH, Jozsef, fofelugyelo

Method for calculating economy at plants preparing homogeneous products. Energia es atom 15 no.1:29-37 Ja '62.

1. Magyar Beruhazasi Bank.

(Hungary--Industrial management)

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Jozsef; NOVAK, Mihaly; HIRES, Jozsef

Theoretical studies on the current and potential requirements of cathodic protection on the basis of Pourbaix diagrams. Magy kem folyoir 69 no.2:75-81 F '63.

1. Szegedi Tudomanyegyetem Altalanos es Fizikai Kemiai Tanszeke.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Jozsef

Viscose rayon fiber yarn produced by the shortened spinning process. Przegl wlokien 16 no.7/8:374-379 Jl-Ag '62.

1. Magyar Gyapjufone es Szövögyar, Budapest.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Jozsef, egyetemi tanarseged (Budapest)

Examples in applying materialistic dialectics. Term tud kozl 5 no.6:257-259 Je '61.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

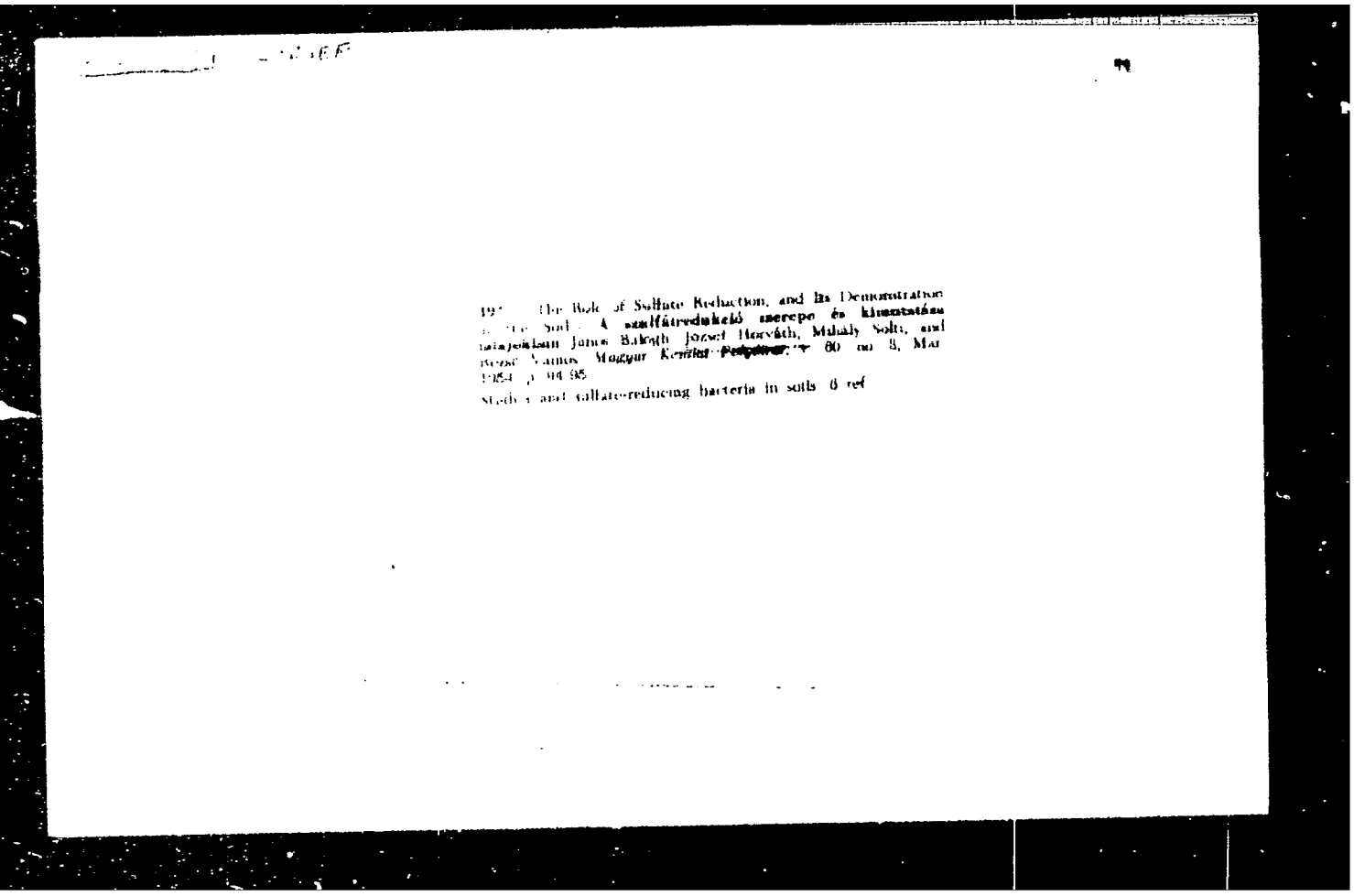
KAPOSVARI, Kalman; KEULER, Jeno; BANOCZY, Gyorgy; CSEKE, Lajos; ARATO, Geza; HORVATH, Jozsef; SEBESTYEN, Endre; BERES, Gyorgy; KARDOS, Gyorgy

Remarks about Agoston Vecsey's lecture entitled "Production development trends in the Hungarian heavy-current cable and electric line manufacture; cooperation with the Council for Mutual Economic Assistance countries." Villamossag 8 no.2-3: 82-86 F-Mr '60.

1. Koho- es Gepipari Miniszterium Erosaramu Berendezesi Igazgatosag iparagi fomernoke (for Kaposvari). 2. Villamosgep- es Kablegyar osztalyvezetoje (for Keuler). 3. Villamosipari Kutato Intezet tudomanyos munkatarsa (for Kardos). 4. EM Szereloipari Tervezo Vallalat; "Villamossag" szerkeszto bizottsagi tagja (for Banoczy). 5. Magyar Elektrotechnikai Ellenorzo Intezet (for Cseke). 6. Transelektro, Kulkereskedelmi Miniszterium (for Arato). 7. Koho- es Gepipari Miniszterium Tervezoi Irodai (for Horvath). 8. Vegyimuveket Tervezo Vallalat (for Sebestyen). 9. Kabel- es Sodronykotelgyar (for Beres).

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2



19[illegible] The Role of Sulfate Reduction, and Its Demonstration in the Soil. A szulfátredukció szerepe és kimutatása tatajokban János Balogh, József Horváth, Mihály Solti, and Rezsé Vámos. Magyar Kémiai Folyóirat, v. 60, no. 3, Mar 1954, p. 94-95.

Stud[illegible] and sulfate-reducing bacteria in soils. 6 ref.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Jozsef

4404* Laboratory Investigation of the Corrosive Effect of Various Types of Soils. Különböző talajtípusok korrózíós hatásának laboratóriumi vizsgálata. I. Denison-Cell Investigations. Denison-cellas vizsgalatok. (Hungarian.) Mihály Solti and Jozsef Horvath. *Magyar kémiai folyóirat*, v. 61, no. 12, Dec. 1955, p. 427-437.

Corrosivity of nine different types of soils investigated with steel electrodes in a modified Denison cell. Tables, graphs, micrographs, diagrams. 16 ref.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Jozsef

Data on the mechanism of anaerobic microbiological corrosion. I. Interpretation of the effect of sulfate reducing bacteria on the basis of polarization curves. Magy kem folyoir 68 no.1:5-9 Ja '62.

1. Szegedi Tudomanyegyetem Altalanos- es Fizikai-Kemiai Intezete.

(Bacteria, Anaerobic) (Sulfates)
(Corrosion and anti-corrosives)
(Electrochemistry)

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Jozsef

Data on the microbiological corrosion mechanism of anaerobic bacteria.II. p_H value of medium, correlations between the precipitation place of solid corrosion products and corrosion velocity in case of iron and steel. Magy kem folyoir 68 no.2:54-59 F '62.

1. Szegedi Tudomanyegyetem Altalanos es Fizikai-Kemiai Intezete.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Jozsef, dr.; NOVAK, Mihaly

Contributions to the mechanism of anaerobic microbiological corrosion. II. Acta chimica Hung 33 no.2:221-235 '62.

1. Institute of General and Physical Chemistry, University of Szeged, Rerrich Bela ter.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Jozsef; NOVAK, Mihaly

Data on the microbiological corrosion mechanism of anaerobic bacteria. III. Investigation of reduction-oxidation potentials, p_H and the correlations of the composition of corrosion products by means of Pourbaix diagrams. Magy kem folyoir 68 no.2:60-65 F '62.

1. Szegedi Tudomanyegyetem Altalanos es Fizikai-Kemiai Intezete.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Josef; NOVAK, Mihaly

Electrochemical investigation of the corrosion of red copper in aqueous sulfur-hydrogen solutions. I. Interpretation of electrode potential and polarization data on the ground of the equilibrium diagram of the Cu-S-H_2O ternary system potential-PH. Magy kem folyoir 68 no.5:193-198 My '62.

1. Szegedi Tudomanyegyetem Altalanos- es Fizikai-Kemiai Tanszeke.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Jozsef, dr., tudomanyos munkatars

Science for increased production in agriculture; some properties and diagnosis of potato viruses. Term tud kozl 7 no.6:265-268 Je '63.

1. Novenyvedelmi Kutato Intezet, Keszthely.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

ZOMBORI, Janos, tudomanyos fomunkatars; HORVATH, Jozsef, tudomanyos munkatars

International situation of tractor production and tractor development. Jarmu mezo gep 11 no.8:296-306 Ag '64.

1. Experimental Institute of Agricultural Machinery, Budapest.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Jozsef, dr.

On urethral calculi in the male in general, apropos of an exceptionally large calculus in the distal urethra. Magy. sebesz. 16 no.5:330-334 O '63.

1. A Hajdu-Bihar Megyei Tanacs Korhaza Urologiai Osztalyanak (foorvos: Dioszeghy Gyorgy dr.) kozlemenye.
(URETHRA) (URINARY CALCULI)
(DIAGNOSIS, DIFFERENTIAL)
(PROSTATIC NEOPLASMS)
(SURGERY, OPERATIVE) (UROGRAPHY)

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HUNGARY

HORVATH, Jozsef, Dr, NOVAK, Mihaly, HIRES, Jozsef, Dr; Institute of General and Physical Chemistry, The University, Szeged [original language version not given].

"Theoretical Studies on the Potential and Current Requirements of Cathodic Protection on the Basis of Pourbaix Diagrams."

Budapest, Acta Chimica Academiae Scientiarum Hungaricae, Vol 38, No 2, 1963, pages 151-165.

Abstract: [English article, authors' English summary modified] The potential and current requirements of cathodic protection in soils and natural waters with different chemical compositions have been demonstrated on the basis of potential-pH equilibrium diagrams using the systems Fe-H_2O, Fe-S-H2O and Fe-H_2CO_3-H_2O. It was concluded that in aqueous media which contain no complex forming agents or anions which may form solid salts with the metal to be protected, the protective potential -0.85 V (against Cu/$CuSO_4$ reference electrode) generally accepted in practice, may be quite sufficient. In aqueous media which contain Ca and Mg bicarbonates, cathodic polarization promotes the formation of a solid protective layer, mainly consisting of Ca, Mg and Fe carbonates, which decreases current requirements. In soils and waters which contain hydrogen sulfide, however, more negative protective potentials are necessary. In soils which contain sulfate-producing bacteria, a protective potential of -0.95 V may be sufficient, in aqueous solutions saturated with hydrogen sulfide, however, potential requirements are much higher. Potential and current requirements of cathodic protection are also demonstrated on schematic polarization diagrams. 19 Western, 2 Hungarian references.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

NOVAK, Mihaly; HORVATH, Jozsef; HIRES, Jozsef

Remarks about the calculating method for corrosion velocity developed by Holler, Scherdtfeger and McDorman. Magy kem folyoir 69 no.4:175-176 Ap '63.

1. Szegedi Tudomanyegyetem Altalanos- es Fizikai-Kemiai Tanszeke.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

HORVATH, Dr Jozsef, Department of Urological Surgery (Urologiai Osztaly) (Chief Physician: Dr Gyorgy DIOSZEGHY) of the Hajdu-Bihar Megye Council Hospital (Hajdu-Bihar Megyei Tanacs Korhaza)(Director: Dr Geza MANYI), Debrecen.

"Evaluation of Perineal Prostate Needle Biopsies"

Budapest, Magyar Sebeszet, Vol 19, No 3, Jun 66; pp 203-207.

Abstract: Perineal needle biopsy was performed in 60 cases of prostate disease. The method is simple, free of complications, and recommended for the diagnosis of prostate diseases. The biopsy was carried out with a Vim-Silverman type needle; in cases of suspected tumors the diagnosis is 43.8% certain. (47 References, predominantly Western).

1/1

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

BENYOVSZKY, Moric, fotechnologus; DERY, Ferenc; SZASZ, Jozsef; HORVATH, Jozsef; KAIMAN, Lajos; SARI, Vince

Prevention of foundry hazards by technological measures. Koh lap 96 no. 5: Supplement: Ontode 14 no. 5: 106-112 My '63.

1. KGMTI (for Benyovszky).

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

MATHE, Gyorgy, okleveles gepeszmernok; HORVATH, Jozsef; HIRSCH, Lajos; ROTH, Kalman

Some questions relating to the ventilation and dust extraction in foundries. Koh lap 96 no. 6:Suppl.:Ontode 14 no. 6:128-136 Je '63.

1. Designing Offices of the Ministry of Metallurgy and Machine Industry, Budapest.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

NOVAK, Mihaly; HORVATH, Jozsef

Remarks about the methods of Schwerdtfeger and Stern for corrosion rate determination. Pt.2. Magy kem folyoir 70 no.10:453-457 O '64.

1. Chair of General and Physical Chemistry, Attila Jozsef University, Szeged.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J.

"Successful Introduction of F-5 in Varpalota Mines." p. 14
"Cycle Norm, Cycle Graph." p. 14
"Smelter Innovators Make a Pledge." p. 15
"Contest for the Title "Best Innovator of the Enterprise." p. 15
"Diary of Innovations." p. 16
(Ujitok Lapja. Vol. 5, no 5 Mar. 1953 Budapest.)

Vol 3. no. 6
SO: Monthly List of East European Accessions./Library of Congress, June 1954, Uncl.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J.

"This is how the Soviet loader BCS-1 helps our miners" p. 11, "Metal shaving contest at Diosgyor" p. 11, "Two successful experience-exchange introductions in the building industry" p. 12, (UJITOK LAPJA, Vol. 5, no. 7, April 1953, Budapest, Hungary)

SO: Monthly List of East European Accessions, L. C., Vol. 2, No. 7, July 1953, Uncl.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J.

"Measuring mine props with special attention to closed arches." Banyaszati Lapok, Budapest, Vol. 9, No. 5, May 1954, p. 238.

SO: Eastern European Accessions List, Vol. 3, No. 11, Nov. 1954, L.C.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J.

"Innovators in the battle for coal", p. 6

"Results This Year in the Duclos Mining Machinery Plant", p. 8

"A New Industrial Branch Emerges; Peat Production", p. 8

"The Planning of Tasks in Komlo", p. 9

"Innova tion Work of Mining Planners", p. 9 (UJITOK LAPJA, Vol. 6, no. 3, Feb. 1954, Budapest, Hungary).

Source: Monthly List of East European Accessions, LC, Vol. 3, no. 5, May 1954/Uncl.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J.

HORVATH, J. Conference on technological development of coal mining. p. 13 Vol. 7, no. 17, Sept. 1955. UJITOK LAPJA. (Orszagos Talalmanyi Hivatal( ) Hungary.

Source: East European Accessions List (EEAL), Library of Congress Vol. 5, no. 6, June 1956

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J.

National conference on coal mining. p. 6.
Innovators invited to lead in the liberation contest. p. 9.
Principal tasks of innovation in the electric power industry. p. 11.
Development of our electric technical experts. p. 13.
MAGYAR LAPJA, Budapest, Vol. 7, no. 1, Feb. 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955, Uncl.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J.

From the first battle for coal to the new battle for coal. [illegible]. UJITOK LAPJA, Budapest, Vol. 7, no. 14, July 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955, Uncl.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Josef, dr., Min. Eng.

Influence of surface loads on underground supports. Izvestiia Bany KI no.5:67-74 '61.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Jozsef, okl.banyamernok

Development of steel ring support system in Hungary.
Bany lap 94 no.12:804-810 D '61.

1. Banyaszati Kutato Intezet, Budapest.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Jozsef, okleveles banyamernok

Calculation of the load capacity of surface foundations affecting the safety of the work. Bany lap 96 no.3:145-152 Mr '63.

1. Banyaszati Kutato Intezet osztalyvezetoje, Budapest.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J.; Tobisch, F.; VARGA I, P.

An interesting fault of viscose fiber. p. 161.

MAGYAR TEXTILTECHNIKA. (Textilipari Muszaki es Tudomanyos Egyesulet)
Budapest, Hungary. Vol. 11, 4, Apr. 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 2, July 1959.
Uncl.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J.

"Determination of wool fineness by lanameter type 2-12-1/b." In English p. 115.

PERIODICA POLYTECHNICA. (Budapesti Muszaki Egyetem) Budapest, Hungary Vol.3, No. 1, 1959.

Monthly List of East European Accessiosn(EEAI) LC, Vol. 8, No. 6, June 1959 Uncl.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Jozsefne, okl. gepeszmernok; MOHR, Ferenc, okl. vegyeszmernok

Experiences of lubricating viscose fibers in spinning mill. Magy textil 13 no.5:203-208 My '61.

1. Magyar Gyapjufono es Szovogyar.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Jozsefne

Application of radioactivity in the textile industry. Magy textil 13 no.6:230-233 Je '61.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Jozsefne

Experimental spinning on the Sant Andrea worsted-ring spinning machine. Magy textil 14 no.2:66-72 F '62.

1. Textilipari Kutato Intezet.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

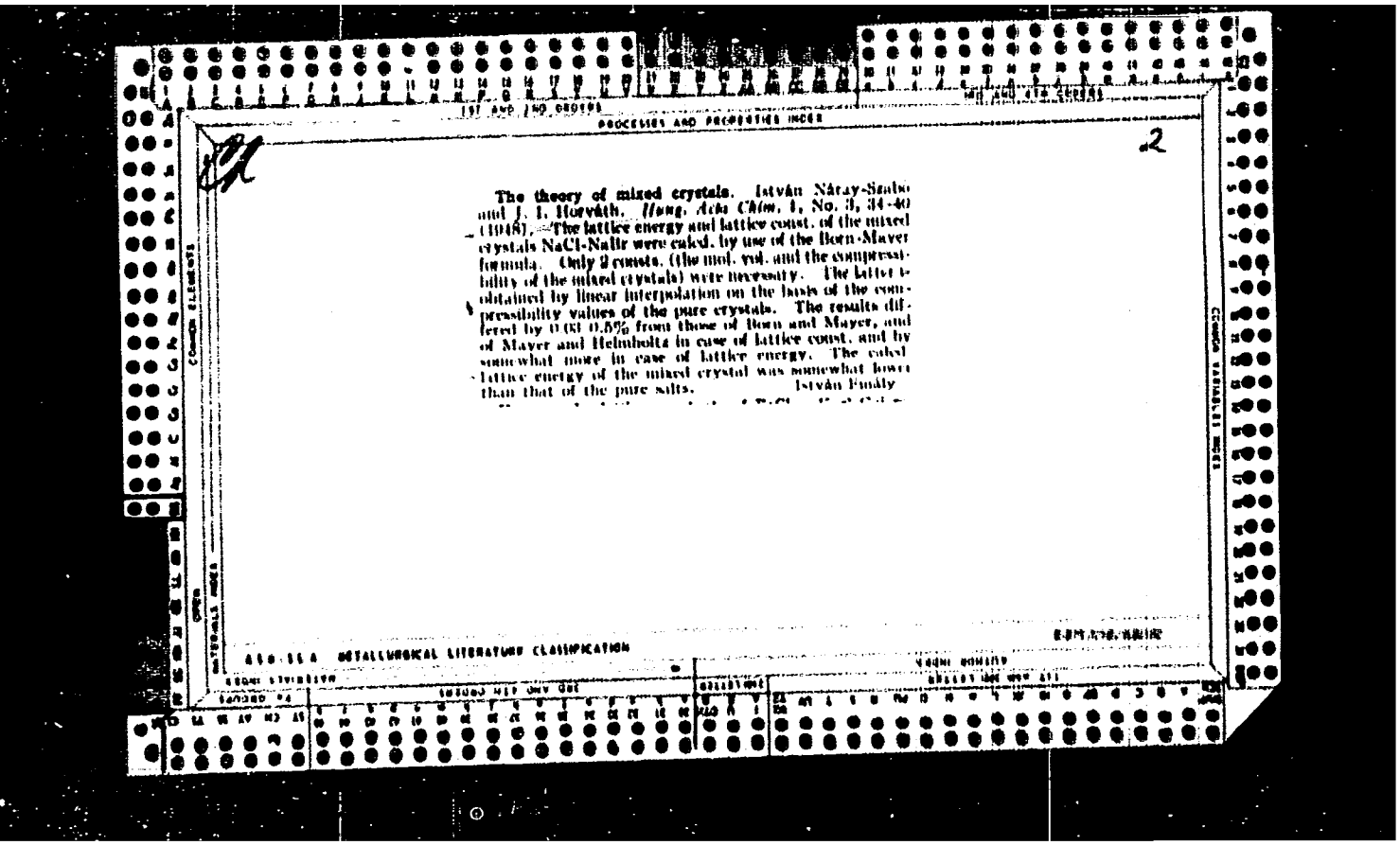
HORVATH, Jozsefne, okleveles gepeszmernok

Application of isotopes in the analysis of textile materials.
Magy textil 15 no.11:514-517 '63.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

1ST AND 2ND ORDERS



PROCESSES AND PROPERTIES INDEX

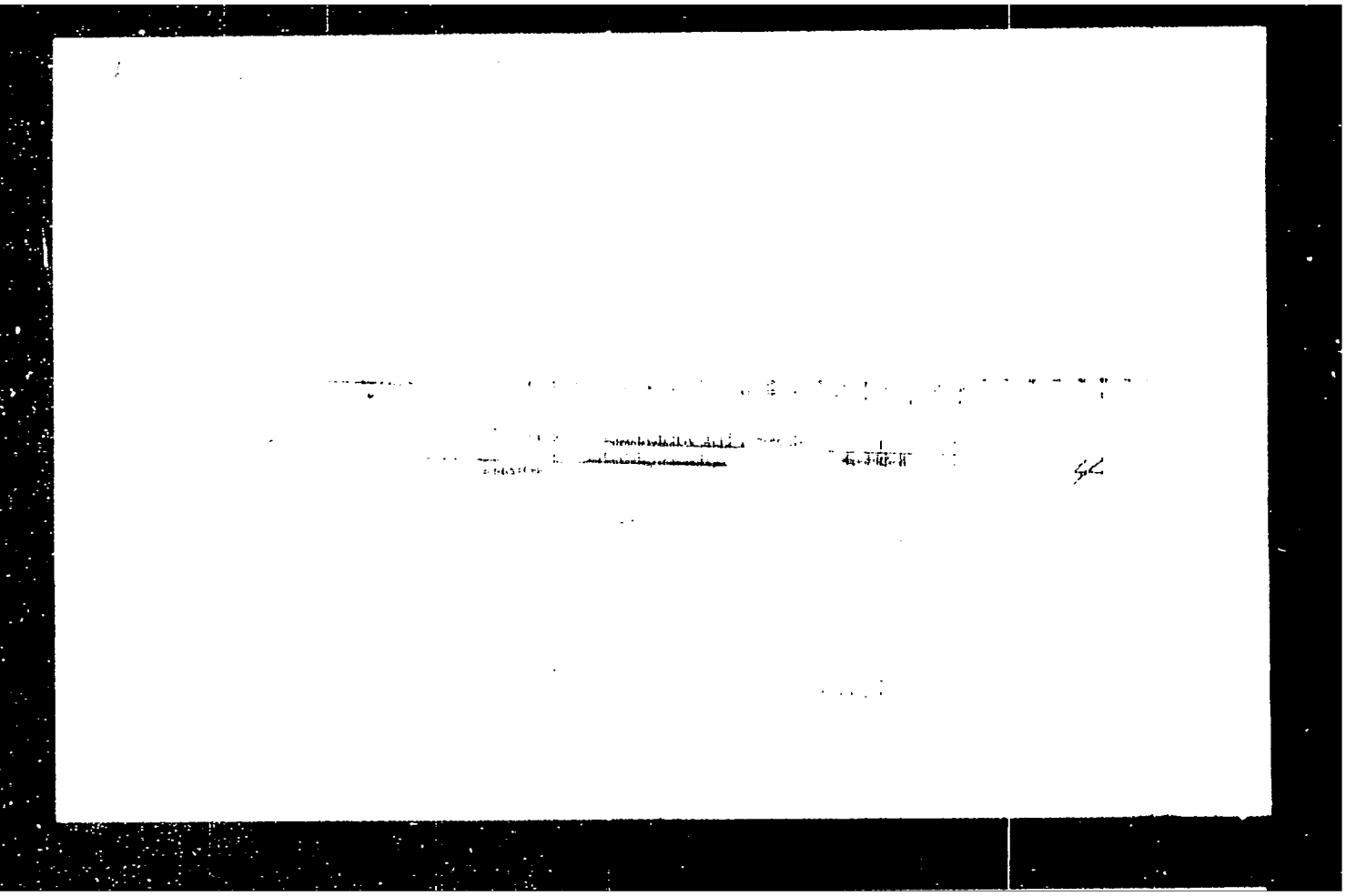
2

The theory of mixed crystals. István Náray-Szabó and J. I. Horváth. *Hung. Acta Chim.* 1, No. 3, 34-40 (1948).—The lattice energy and lattice const. of the mixed crystals NaCl-NaBr were calcd. by use of the Born-Mayer formula. Only 2 consts. (the mol. vol. and the compressibility of the mixed crystals) were necessary. The latter is obtained by linear interpolation on the basis of the compressibility values of the pure crystals. The results differed by 0.03-0.5% from those of Born and Mayer, and of Mayer and Helmholtz in case of lattice const. and by somewhat more in case of lattice energy. The calcd. lattice energy of the mixed crystal was somewhat lower than that of the pure salts. István Finály

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

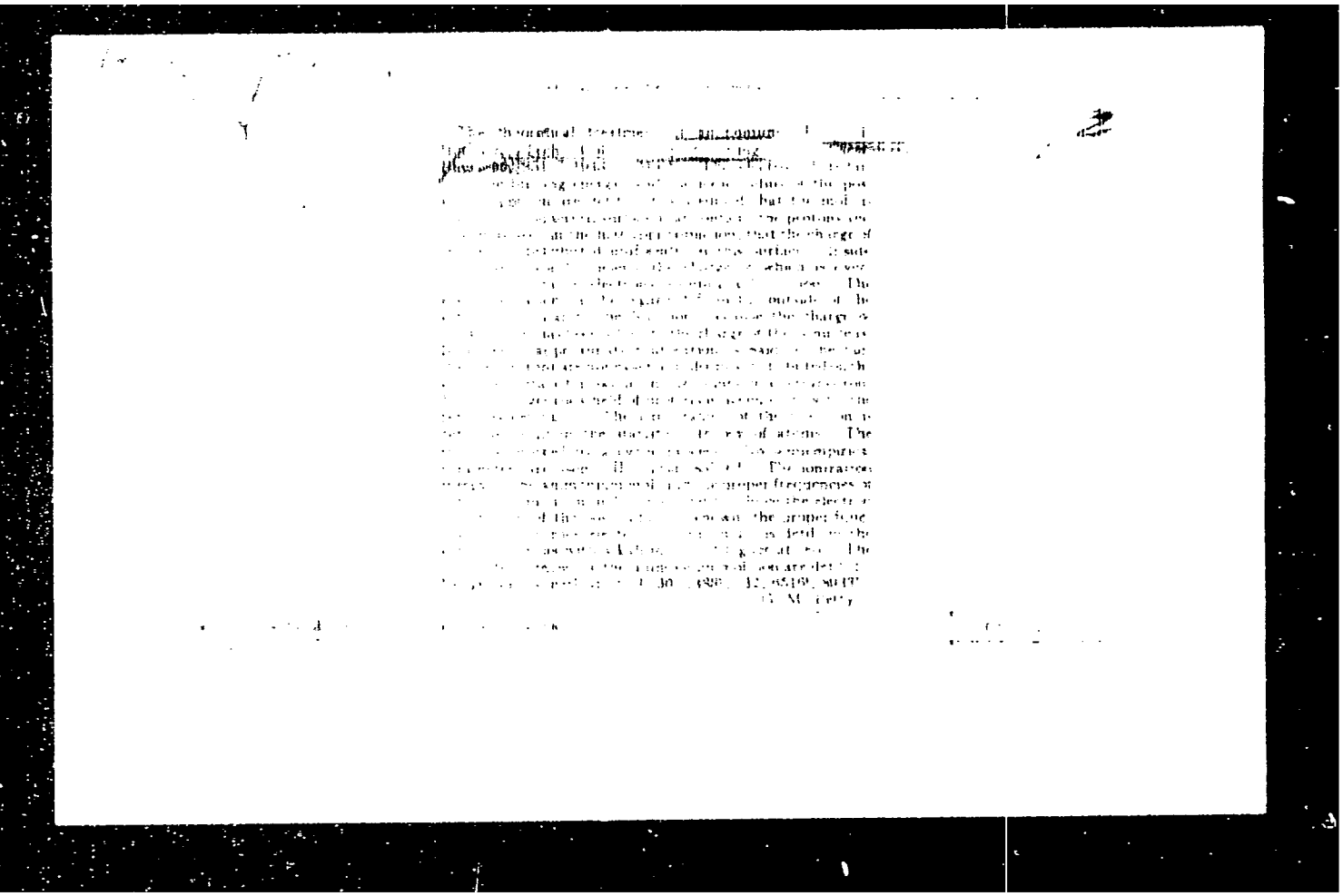
APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2



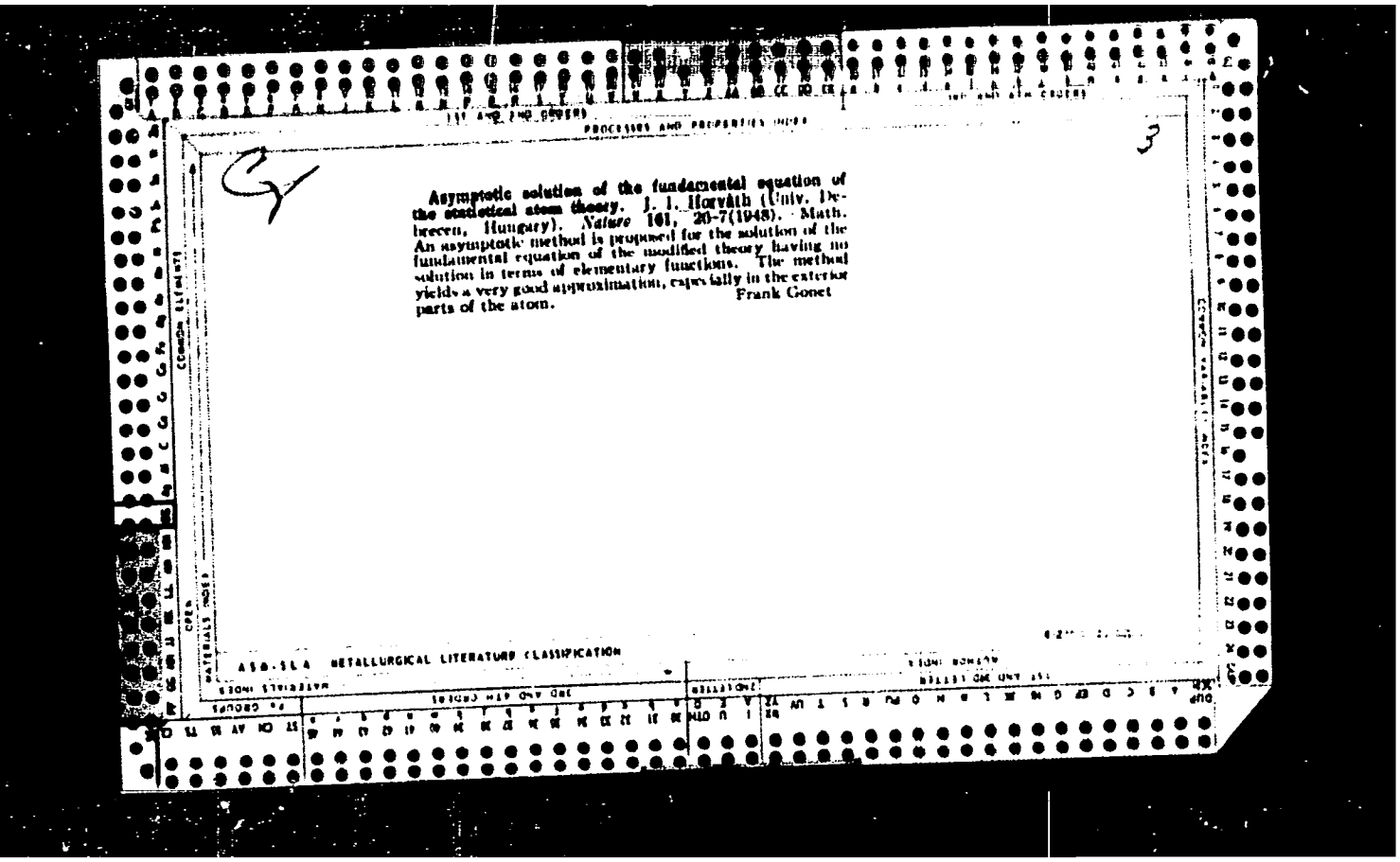
APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2



APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

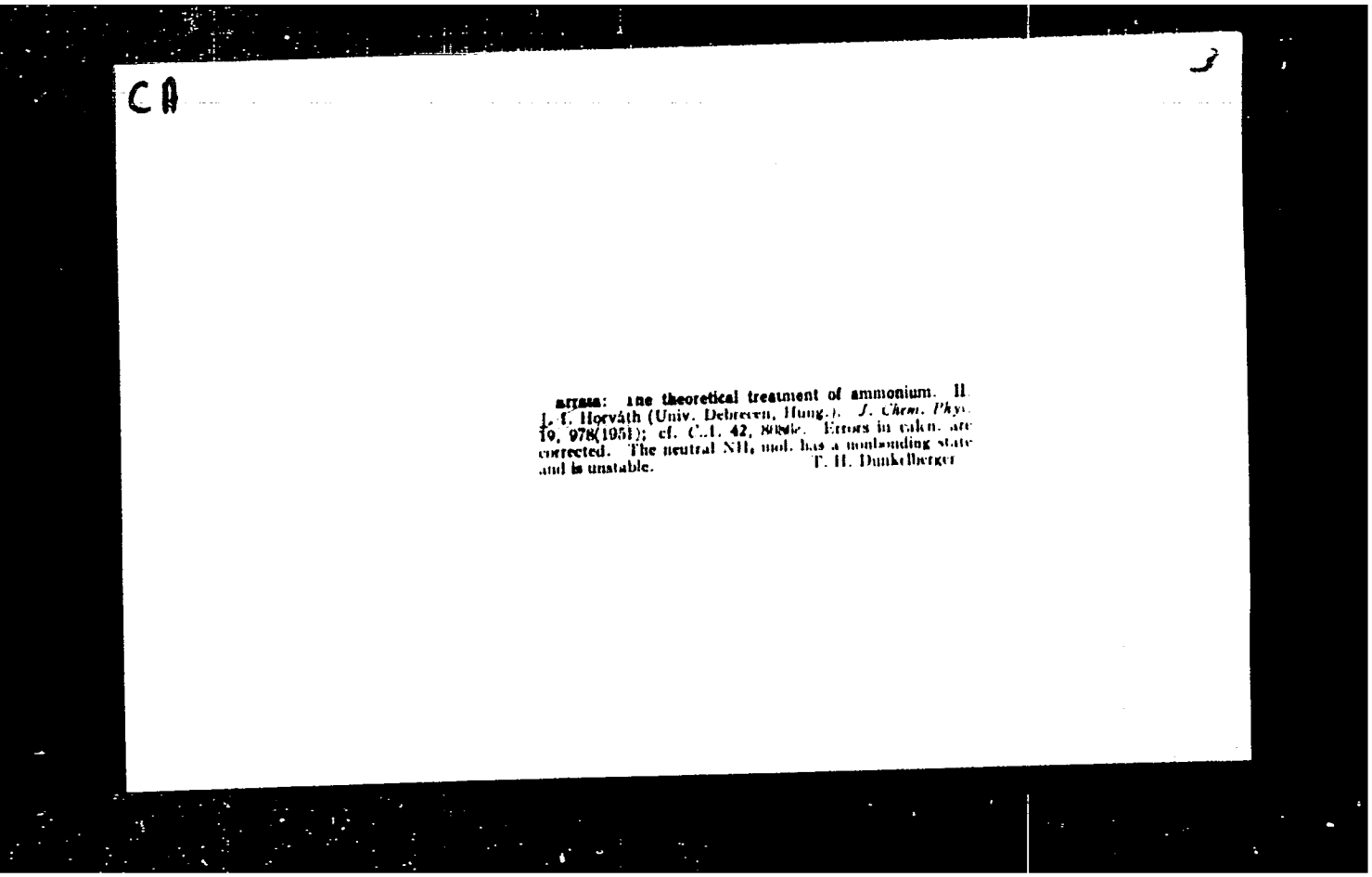


Asymptotic solution of the fundamental equation of the statistical atom theory. J. I. Horváth (Univ. Debrecen, Hungary). *Nature* 161, 20-7(1948). Math. An asymptotic method is proposed for the solution of the fundamental equation of the modified theory having no solution in terms of elementary functions. The method yields a very good approximation, especially in the exterior parts of the atom.

Frank Gonet

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2



CA

3

Errata: The theoretical treatment of ammonium. II. I. I. Horváth (Univ. Debrecen, Hung.). *J. Chem. Phys.* 19, 978(1951); cf. C.A. 42, 8086c. Errors in calcn. are corrected. The neutral NH_4 mol. has a nonbonding state and is unstable. T. H. Dunkelberger

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

CA

General & physical Chem.-2

Calculation of the polarization energy of hydrogen halide molecules. J. I. Horváth (Univ. Debrecen, Hung.). *Z. Physik*, 132, [illegible].—The method of Gombás and Neugebauer (*C.A.* 29, 2037[8]) was improved by calcg. the polarization energy of the mol. by adding the polarization energies of the sep. closed electron shells of the halogen anion. For HCl the calcd. dissocn. energy is 12,975 e.v., while the empirical value is 14.19 e.v.; the calcd. equil. nuclear distance is 1.3750 A., while the spectroscopic value is 1.3154 A.

James L. Lauer

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

MORVATH, JANOS

2

341. Numerical Calculation of Polarization Energy. Meg. jegyzések a polarizációs energia numerikus kiszámításához. Janos Horvath. Magyar Fizikai Folyoirat, v. 1, 1953, p. 19-26. Contribution are suggested for the Gombás-Neugebauer method. Application to calculation of binding energy of HCl. Table [illegible]

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HUNG.

550

8698. The equations of motion of the electron. J. L. HORVÁTH. Note in *Acta phys. Hungar.*, No. 3-4, 171-204 (1954) *In German.*

The electron is treated classically and relativistically. A tensor is formed to take account of the spin (and the velocity-dependent electric dipole) of the electron. The Lagrangian and equations of motion are obtained and the Riesz method and potential are employed. The Lienard-Wiechert potential and the potential arising from the magnetic moment of the electron are obtained. The calculation of the self-force is discussed briefly. G. E. BROWN

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J. L.

-9

HUNG.

530.145

8921. Remarks on the solution of the Schrödinger equation by a variational procedure. J. L. Horváth. Note in *Acta phys. Hungar.*, 3, No. 3, 325–7 (1954) *In German.*

The deviations of the eigenfunctions obtained in atomic problems from the true eigenfunctions are discussed. Since the true functions are not known, Hartree-Fock functions must be used in their place in this comparison. The deviation of the potential occurring in the equation for the variational function from the true atomic potential, as a function of r, can also be used as a criterion for the deviation of the eigenfunctions. G. E. BROWN

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J. I.

HUNGARY/Theoretical Physics - Classical Electrodynamics. Classical Field Theory. B-3

Abs Jour : Ref Zhur - Fizika, No 4, 1958, No 7569

Author : Horvath, J.I.
Inst : University of Szeged, Hungary
Title : The Bilocal Generalization of the Schroedinger-Gordon Equation

Orig Pub : Acta phys. et chem., 1955, 1, No 1-4, 25-28

Abstract : The author discusses the concept of the bilocality in classical field theory. From the variational principle with a bilocal Lagrangian function he obtains a relativistically-invariant bilocal Schroedinger-Gordon equation.

Card : 1/1

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J. I.

Horváth, J. I. Contribution to the final affine field law. Bull. Acad. Sci. Cl. III 3, 151–155 (1955).

The transformation

(1) $$^*\Gamma^i_{\lambda\mu} = \Gamma^i_{\lambda\mu} + 2\delta^i_\lambda p_\mu$$

preserving par. Pfeism yields

(2) $$(n-1)\, p_\mu = \Gamma^i_{\lambda\mu}\lambda_i$$

for

(3) $$^*\Gamma^i_{\lambda\mu}\lambda_i = 0$$

so that one obtains for the corresponding contracted curvature tensors $R_{\mu\nu}$ and $^*R_{\mu\nu}$ the Schrödinger formula

(4) $$R_{\lambda\mu} = {}^*R_{\lambda\mu} - F_{\lambda\mu}$$

with $F_{\lambda\mu}$ proportional to $\partial_{[\lambda} p_{\mu]}$. In the last section the author expresses the opinion that "the equations of motion in their parameter invariant form must be invariant against changes of the affinities which preserve the parallelism". [Cf. A. Einstein, Louis de Broglie, physicien et penseur, Editions Albin Michel, Paris, 1953, pp. 337–342; MR 16, 634, and V. Hlavatý, J. Rational Mech. Anal. 3, 645–689 (1954); MR 16, 408.] V. Hlavatý, Bloomington, Ind.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

Category : HUNGARY/Theoretical Physics - Classical Electrodynamics B-3

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 2926

Author : Horvath, Janos
Title : Equations of Motion of the Electron

Orig Pub : Magyar tud. akad. mat. es. fiz. oszt. kozl. 1955, 5, No 4, 411-450

Abstract : No abstract

Card : 1/1

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J.

Gamma spectroscopy. p. 131. FIZIKAI SZEMLE. (Eotvos Lorand Fisikai Tarsulat) Budapest. Vol. 5. no. 5, Oct 1955.

Source: EEAL - LC Vol 5, No. 10 Oct. 1956

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J. I.

Horvath, J. I. On the theory of the electromagnetic field in moving dielectrica. Bull Acad Polon Sci Cl III [illegible] 447-452 [illegible]

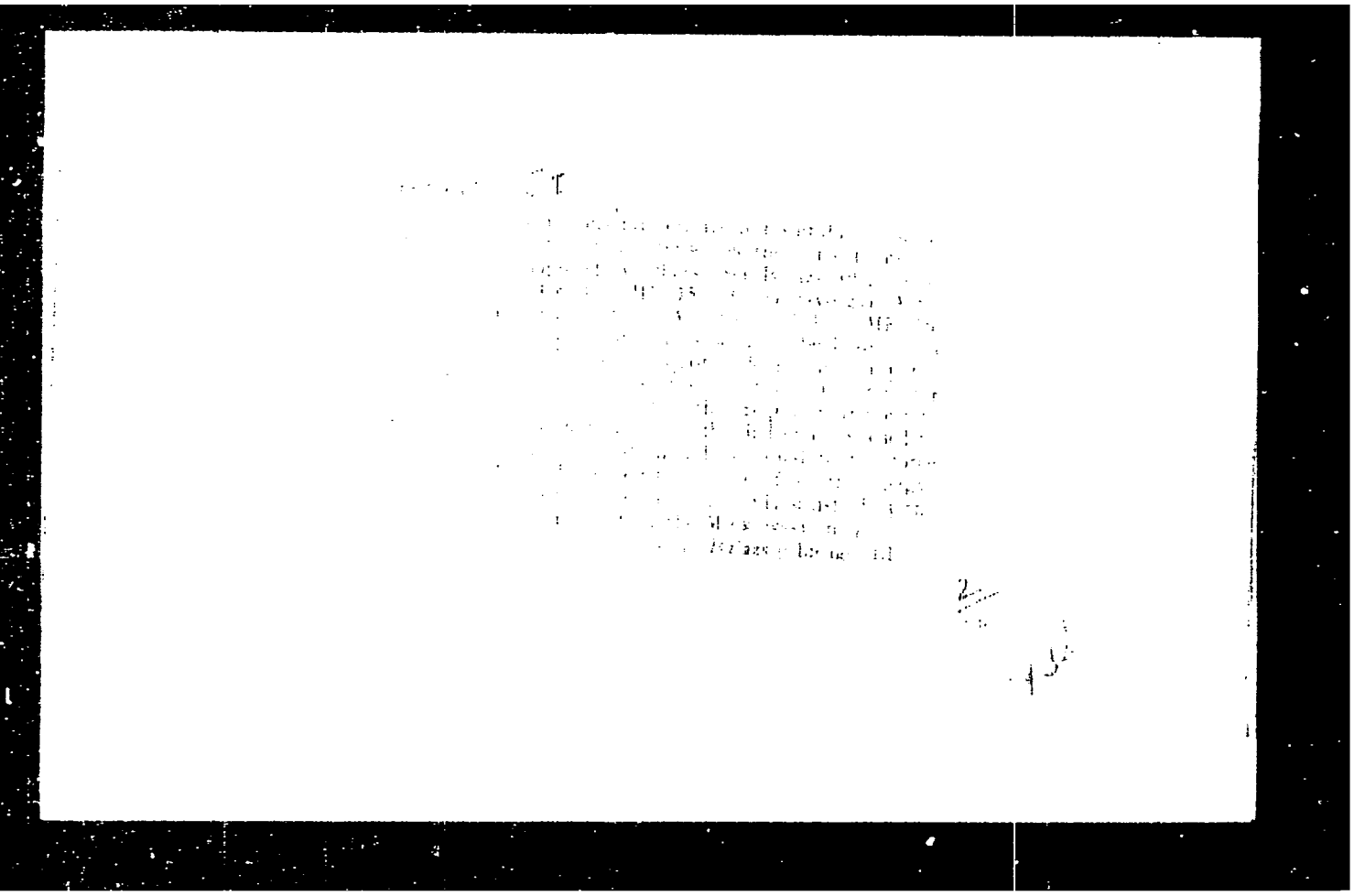
[illegible] sets up a variational principle for Maxwell's [illegible] the presence of matter using the polarization [illegible] He then shows that the [illegible] following from this variational [illegible] the energy momentum tensor as defined [illegible] also states that the energy momentum [illegible] Minkowski also satisfies the con- [illegible]

1-F W

1/2

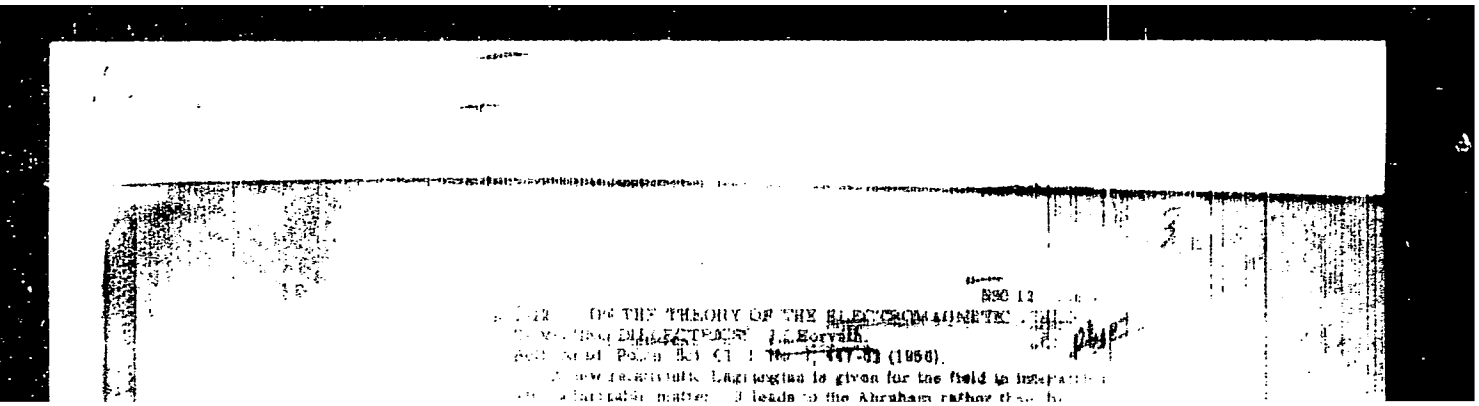
APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2



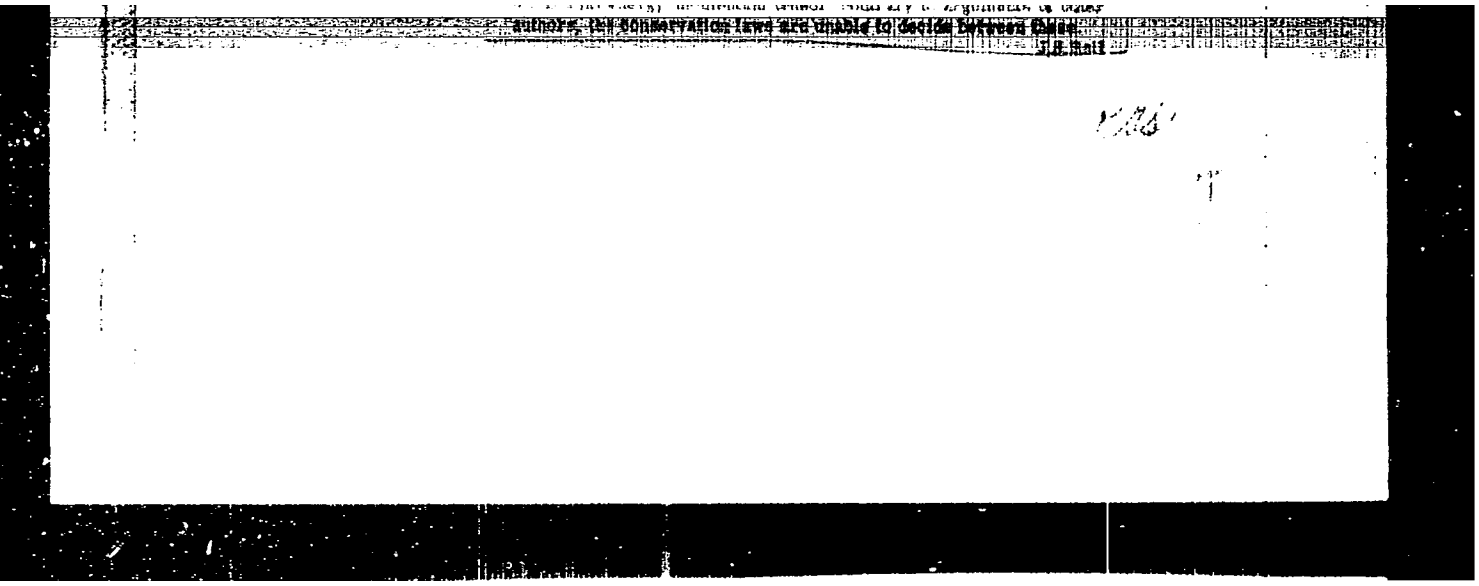
APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2



APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2



APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HUNGARY/Electricity - General G-1

Abs Jour : Ref Zhur - Fizika, No 1, 1959, No 1138

Author : Horvath J.I., Hyulai J.
Inst : The University, Szeged, Hungary
Title : Conservation Laws of Electromagnetic Field in Moving Dielectrics.

Orig Pub : Acta phys. et chem. Szeged, 1956, 2, No 1-4, 39-48

Abstract : The field equations in moving bodies are considered. A conservation law is derived for the electromagnetic field in a moving dielectric. The problem of the energy-momentum tensor of the electromagnetic field is again examined.

Card : 1/1

HORVATH APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

New theorem in affine space theories. p. 105. MAGYAR FIZIKAI FOLYOIRAT. (Magyar Tudomanyos Akademia) Budapest. Vol. 4, no. 2, 1956.

SOURCE: East European Accessions List (EEAL), Library of Congress, Vol. 4, No. 12, December 1955

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J.; MOOR, A.

Theory of space based on the general metric spaces of elementary particles.
p. 53. Vol. 6, no. 1, 1956 KOZLEMENYEI Budapest, Hungary

Source: East European Accession List. Library of Congress
Vol. 5, No. 8, August 1956

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J. I.

Hungary Electricity - General G-1

Abs Jour : Ref Zhur - Fizika, No 1, 1959, No 1139

Author : Horvath J.I., Gyulai J.
Inst : The University, Szeged, Hungary
Title : Appendix to the Paper "On the Conservation Laws for the Electromagnetic Field in Moving Dielectrics".

Orig Pub : Acta phys. et chem. Szeged, 1957, 3, No 1-4, 33-34

Abstract : Supplementing the article by the same authors (see Abstract 1138), it is proven that the form of the radiation tensor proposed by Beck and March are equivalent.

I. Fisher

Card : 1/1

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

HUNGARY/Theoretical Physics - Classical Electrodynamics. Classical G-1
Theory of Fields.

Abs Jour : Ref Zhur - Fizika, No 9, 1958, No 19626

Author : Horvath J.I., Vasvari B.
Inst : University of Szegod, Szegod, Hungary
Title : Generalized Linear Electrodynamics.I.

Orig Pub : Acta phys. Acad. sci. hung., 1957, 7, No 3, 277-288

Abstract : It is noted that in electrodynamics with higher derivatives, in the Podolsky formulation (Podolsky B., Schwed Ph., Reviews of Modern Physics, 1948, 20, 40) a difficulty arises in quantization, owing to the vanishing of the time component of the generalized momentum of the field. The authors propose a new expression for the Lagrangian function of the free field, at which all the momenta of the field are finite, and the field equations are obtained in the form of generalized wave equations without using the supplementary Lorentz condition. The canonical formalism of the theory is developed in detail, as are the derivations for the expressions for

Card : 1/2

2

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HUNGARY/Atomic and Molecular Physics - Statistical Physics. Thermodynamics. D

Abs Jour : Ref Zhur Fizika, No 10, 1959, 22372

Author : Horvath, Janos

Inst :

Title : Fifty Years of the Langevin Equation; the Principal Equation for the Dynamics of Molecular Processes

Orig Pub : Fiz. szemle, 1958, 8, No 10, 303-305

Abstract : No abstract.

Card 1/1

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Janos

Degrees of inner liberty of physical spaces and geometrical interpretation of the isobar spinter. Magy fiz folyoir 9 no.6:429-475 '61.

1. Szegedi Tudomanyegyetem Elmeleti Fizikai Intezete, Szeged.

(Spaces, Generalized) (Particles)
(Horvath, Janos)

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, Janos

Electromagnetic measuring systems. Fiz szemle 11 no.10:295-299 O '61.

1. Szegedi Tudomanyegyetem Elmeleti Fizikai Intezete.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J. I.

"Introduction to mechanics, matter and waves" by Uno Ingard and William L. Kraushaar. Reviewed by J. I. Horvath. Acta phys Hung 13 no.3:367 '61.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HORVATH, J.I.

Space-time structure and mass spectrum of elementary particles.
Acta phys Hung 16 no.2:77-92 '63.

1. Department of Theoretical Physics, University of Szeged,
Szeged. Presented by A. Konya.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

"APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2

HUNGARY

HORVATH, Judit, S.; FONYODI, Tivadar; Capital City Laszlo Hospital, Central Laboratory (Fovarosi Laszlo Korhaz, Kozponti Laboratorium)

"New Indicator for the Mercurimetric Chloride Determination in Biological Fluids."

Budapest, Kiserletes Orvostudomany, Vol XIV, No 6, 1962, pp 665-668.

Abstract: [Authors' summary modified] The advantage of this method over the more generally used Volhard Mohr method is the elimination of deproteinization, filtering, cooking. It is fast, accurate and not light sensitive. No interference is found by ions present in the fluid with the potassium iodate endpoint. The described mercurimetric method is suitable for serum, liquor and urine chloride determinations. If one considers the chemical reaction, this method is more realistic and the results are closer to actual values- according to the authors.

[3 Soviet-bloc, 3 western references]

1/1

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"